Attachment 2

SUMMARY TITLE: Maintenance Analysis/Supportability Analysis

SPECIFIC INSTRUCTIONS: The contractor shall document a Maintenance Analysis Summary for the system. This summary will identify each repairable item and may be used to verify that the maintenance actions and support structure are aligned with the government's requirements and maintenance concept. The repairable items should be identified by end item hardware, breakdown/disassembly sequence. The summary should identify all preventive and corrective maintenance actions along with the required spares and support equipment to perform each maintenance task. The Annual Maintenance Manhour data will be used to prepare the BOIP Feeder Data. The summary data can also be used to develop the Maintenance Allocation Chart (MAC).

DATA **IN LMI** SPECIFICATION MIL-PRF-49506:

- Task Frequency
- Task Time
- Mean Time To Repair (MTTR)
- Level of Maintenance (O-Unit, F-Direct Support, H-General Support, D-Depot, A-Contractor)
- Military Occupational Specialty (MOS)*
- Number of personnel required for task
- Annual Maintenance Manhours (AMMH)
- Failure Ratio
- Assumptions
- Constraints
- Tools required, specific
- Maintenance Function/Task

DATA **NOT IN LMI** SPECIFICATION (Please provide the data product title, its definition and its format):
Title: Maintenance Analysis/Supportability Analysis
Required Data Elements:

- Indenture Code
- Component/Assembly Name
- Component Part Number & Commercial And Government Entity Code (CAGEC)
- Source, Maintenance & Recoverability (SMR) Code

Additional data elements may be added at the contractor's discretion.

Format: Contractor's format using Microsoft Excel

*Government Provided.

SUMMARY LAYOUT Contractor Provided

ATTACHMENT 3 — PROVISIONING

Worksheet 1

SUMMARY TITLE: LMI Summary titles are as indicated below

SPECIFIC INSTRUCTIONS: Logistics Management Information Data Products (Drawings)/ Engineering Data for Provisioning (EDFP) are required for the purpose of assigning National Stock Numbers. The Government will review for acceptance each of the Contractor's offered drawings.

DATA **IN LMI** SPECIFICATION (Please provide the data product title):

Media Format Delivery for all LMI Data Products:

- Electronic delivery (e-mail) attachment in ASCII Format.
- Floppy disk delivery in 1388-2A, 1388-2B, or 1552 Format. ZIPPED files are acceptable
- CD-ROM delivery in 1388-2A, 1388-2B, or 1552 Format.

LMI Summaries:

- Logistics Management Information Data Products (PPL) - **Contract Data Requirements List (CDRL) A010, B010,**
- Logistics Management Information Data Products/Engineering Data For Provisioning (EDFP), Drawings - CDRLs A013, B013.

DATA **NOT IN LMI** SPECIFICATION (Please provide the data product title, its definition and its format):

Logistics Management Information Data Products Pre-procurement Screening: Screening of all part numbers used on system to identify National Stock Numbers (NSN), **CDRL-A012, B012**.

ATTACHMENT 3 — PROVISIONING

Worksheet 2

DATA PRODUCT DELIVERABLE: Data product information required as stated below.

SELECT	EXPLANATION
1	Data required for all piece parts and special tools identified on equipment
2	Data required for only "Commodity Command Standard System On-Line" Repair Parts and Special Tools List (RPSTL)
3	Data required for part number changes only

DATA PRODUCT TITLE	SELECT	ADDITIONAL INFORMATION	GOV'T SUPPLIED DATA
PROVISIONING CONTRACT CONTROL NUMBER (PCCN)	1,3	LMI 0870	X
PROVISIONING LIST ITEM SEQUENCE NUMBER (PLISN)	1,3	LMI 0890	
TYPE OF CHANGE CODE (TOCC)	1	LMI 1420	
INDENTURE CODE - KITS AND HARDWARE	1	LMI 0370	
COMMERCIAL GOVERNMENT ENTITY (CAGE) CODE	1,3	LMI 0140	
CAGE CODE – ADDITIONAL REFERENCE NUMBER	1,3	LMI 0140	
REFERENCE NUMBER (Part Number)	1,3	LMI 1050	
REFERENCE NUMBER CATEGORY CODE (RNCC)	1,3	LMI 1060	
ITEM NAME	1	LMI 0480	
QUANTITY PER ASSEMBLY	1	LMI 0930	
QUANTITY PER END ITEM (QPEI)	1	LMI 0950	
UNIT OF MEASURE (UM)	1	LMI 1510	
SOURCE, MAINTENANCE AND RECOVERABILITY (SMR) CODE	1	LMI 1220	
DEMILITARIZATION CODE (DMIL)	1	LMI 0230	
USABLE ON CODE (UOC)	1	LMI 1560	X
MAINTENANCE REPLACEMENT RATE 1 (MRR 1)	1	LMI 0560 (AKA FAILURE FACTOR 1)	

ATTACHMENT 3 — PROVISIONING

DATA PRODUCT TITLE	SELECT	ADDITIONAL INFORMATION	GOV'T SUPPLIED DATA
MAINTENANCE REPLACEMENT RATE 2 (MRR 2)	1	LMI 0570 (AKA FAILURE FACTOR 2)	
MAINTENANCE REPLACEMENT RATE MODIFIER (MMR MOD)	1	SEE DA PAM 700-25 (AKA FAILURE FACTOR 3)	
ESSENTIALITY CODE	1	LMI 0280	
SHELF LIFE	1	LMI 1190	
PRODUCTION LEADTIME (PLT)	1	LMI 0830	NOTE BELOW
UNIT OF MEASURE PRICE (UM PRICE)	1	LMI 1500	
NEXT HIGHER ASSY PROVISIONING LIST ITEM SEQUENCE NUMBER (NHA PLISN)	1	LMI 0690	
NEXT HIGHER ASSY PROVISIONING LIST ITEM SEQUENCE NUMBER INDICATOR (NHA IND)	1	LMI 0700	
OVERHAUL REPLACEMENT RATE (ORR)	1	LMI 0740	
MAINTENANCE TASK DISTRIBUTION (MTD)	1	LMI 0580	X
REPLACEMENT TASK DISTRIBUTION (RTD)	1	LMI 1110	X
UNIT OF ISSUE (UI)	1	LMI 1470	
UNIT OF ISSUE PRICE (UI PRICE)	1	LMI 1500	
UNIT OF ISSUE CONVERSION FACTOR	1	LMI 1480	
REPAIR CYCLE TIME (RCT)	1	LMI 1080	X
TECHNICAL MANUAL NUMBER (AND ASSOCIATED TECHNICAL MANUAL CODE)	2	LMI 1370	X
FIGURE NUMBER	2	LMI 0300	
ITEM NUMBER	2	LMI 0500	
TECHNICAL MANUAL CHANGE NUMBER (TM CHG)	2	LMI 1350	
TECHNICAL MANUAL INDENTURE CODE (TM IND)	2	LMI 1360	
QUANTITY PER FIGURE	2	LMI 0960	
FUNCTIONAL GROUP CODE	2	LMI 0330	

ATTACHMENT 3 — PROVISIONING

DATA PRODUCT TITLE	SELECT	ADDITIONAL INFORMATION	GOV'T SUPPLIED DATA
PROVISIONING NOMENCLATURE	2	LMI 0900	

ATTACHMENT 3 — PROVISIONING

GOVERNMENT SUPPLIED PROVISIONING DATA

PROVISIONING CONTRACT CONTROL NUMBER (PCCN) — LMI 0870
USEABLE ON CODE (UOC) — LMI 1560

The PCCN is assigned by the government and will provided at the provisioning start of work meeting. The Provisioning Contract Control Number (PCCN) and Provisioning Control Code (PCC)/Useable on Code (UOC) are as follows:

Husky II POR PCCN: CIVPOR, PCC: TBD

PRODUCTION LEAD TIME (PLT) — LMI 0830
Consumable Items = 1 month
Repair Parts = 3 months or less
Long Lead Time Items (i.e. Made to order) = Over 3 months

TECHNICAL MANUAL NUMBER AND APPLICABLE TM CODE – LMI 1370
TM 9-2355-525-10 -- Operator's Manual (All IVMMD Configurations)
TM 9-2355-525-23 -- Unit and Direct Support Maintenance Manual (includes Sustainment Level Maintenance tasks) (Husky II ONS-2 and Husky II ONS-1 Configuration)
TM 9-2355-525-23P -- Unit and Direct Support Repair Parts and Special Tools List (includes Sustainment Level Repair Parts) (Husky II ONS-2 and Husky II ONS-1 Configuration)
TM 9-2355-524-23&P -- Unit and Direct Support Maintenance Manual (includes Sustainment Level Maintenance tasks) and Repair Parts and Special Tools List (Husky I/Meerkat Configuration)
NMWR 9-2355-525-40 -- National Maintenance Work Requirement (Husky II ONS-2 and Husky II ONS-1 Configuration)
TM 9-2330-XXX-13&P -- Mine Detonation Trailers (All configurations of FDT, SDT, TDT)

MAINTENANCE TASK DISTRIBUTION (MTD) — LMI 0580

SMR CODE						01A
P	A	O	O	O	A	

MAINTENANCE TASK DISTRIBUTION										01D
ORG		DSU		GSU		DEP		CR		
22	23	24	25	26	27	28	29	30	31	
6	**5**	**1**	**0**	**1**	**0**	**1**	**0**	**0**	**5**	

SMR CODE						01A
P	A	O	F	F	A	

MAINTENANCE TASK DISTRIBUTION										01D
ORG		DSU		GSU		DEP		CR		
22	23	24	25	26	27	28	29	30	31	
		7	**0**	**1**	**5**	**1**	**0**	**0**	**5**	

SMR CODE						01A
P	A	F	H	H	A	

MAINTENANCE TASK DISTRIBUTION	01D

ATTACHMENT 3 — PROVISIONING

ORG		DSU		GSU		DEP		CR		
22	23	24	25	26	27	28	29	30	31	
				7	5	2	0	0	5	

SMR CODE						
P	A	H	D	D	A	01A

MAINTENANCE TASK DISTRIBUTION										
ORG		DSU		GSU		DEP		CR		
22	23	24	25	26	27	28	29	30	31	01D
						9	5	0	5	

GOVERNMENT SUPPLIED PROVISIONING DATA (CON'T)

REPLACEMENT TASK DISTRIBUTION (RTD) — LMI 1110

SMR CODE						
P	A	O	O	O	A	01A

REPLACEMENT TASK DISTRIBUTION															
ORG			DSU			GSU			PCS/TS			DEP			
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	01J
0	7	5	0	1	0	0	1	0				0	0	5	

SMR CODE						
P	A	O	F	F	A	01A

REPLACEMENT TASK DISTRIBUTION															
ORG			DSU			GSU			PCS/TS			DEP			
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	01J
			0	7	0	0	2	5				0	0	5	

SMR CODE						
P	A	F	H	H	A	01A

REPLACEMENT TASK DISTRIBUTION															
ORG			DSU			GSU			PCS/TS			DEP			
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	01J
						0	9	5				0	0	5	

SMR CODE						
P	A	H	D	D	A	01A

ATTACHMENT 3 — PROVISIONING

REPLACEMENT TASK DISTRIBUTION															
ORG			DSU			GSU			PCS/TS			DEP			
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	**01J**
												1	**0**	**0**	

ATTACHMENT 3 — PROVISIONING

GOVERNMENT SUPPLIED PROVISIONING DATA (CON'T)

REPAIR CYCLE TIME (RCT) — LMI 1080

SMR CODE						01A
P	A	O	O	O	A	

REPLACEMENT CYCLE TIME												01J
ORG			DSU			GSU			DEP			
51	52	53	54	55	56	57	58	59	60	61	62	
0	3	0	0	4	5	0	6	0	0	9	0	

SMR CODE						01A
P	A	O	F	F	A	

REPLACEMENT CYCLE TIME												01J
ORG			DSU			GSU			DEP			
51	52	53	54	55	56	57	58	59	60	61	62	
			0	4	5	0	6	0	0	9	0	

SMR CODE						01A
P	A	F	H	H	A	

REPLACEMENT CYCLE TIME												01J
ORG			DSU			GSU			DEP			
51	52	53	54	55	56	57	58	59	60	61	62	
						0	6	0	0	9	0	

SMR CODE						01A
P	A	H	D	D	A	

REPLACEMENT CYCLE TIME												01J
ORG			DSU			GSU			DEP			
51	52	53	54	55	56	57	58	59	60	61	62	
									0	9	0	

ATTACHMENT 3 — PROVISIONING

PROVISIONING REQUIREMENTS STATEMENT

Equipment Nomenclature: INTERIM VEHICLE MOUNTED MINE DETECTION SYSTEM
Model Number:
Contract Number: W56XXXXXXX
Provisioning Activity (address and zip code): **U.S. Army Tank-automotive and Armaments Command**
ATTN: AMSTA-LC-CJB/MS409
6501 E. 11 Mile Rd.
Warren, MI 48397-5000

Contractor (name, address and zip code):
CRITICAL SOLUTIONS INTERNATIONAL
14908 HAVENSHIRE PLACE
DALLAS, TX 75254-7649

A. This Provisioning Requirements Statement (PRS) is furnished and will be prepared in accordance with Statement Of Work (SOW). Deliverable drawing(s) (REFERENCE: EDFP requirements will be specified on CDRL A013). The contractor shall provide a drawing for each line item submitted for provisioning which does not have a valid NSN, see Scope of Work paragraph C.25.1. EDFP drawings shall consist of illustrations such as company drawings or commercial parts book pages that clearly identifies each new provisioned item, its part number and CAGE. All EDFP shall reflect the vehicle model configuration established. The contractor shall annotate all EDFP with the PLISN and the PCCN. The contractor shall furnish EDFP that is legible and representative of each part number and CAGE in accordance with CDRL A013. The contractor shall submit all EDFP in the English language.

PROVISIONING REQUIREMENTS

1. Provisioning/Maintenance/Publication Guidance Conference: **Is Required**
   NOTE: The MPP will coincide with the Provisioning Conference; publications review and the provisioning conferences will be run concurrently
   a. Location: CONTRACTOR'S FACILITY/SUBCONTRACTOR
   b. Date: EVERY 60 DAYS AFTER START OF WORK MEETING, until no longer necessary
   c. Time: **0800-1700**
   d. Estimated number of days: **5**

2. Provisioning Conferences(s): **Are Required**
   NOTE: The MPP will coincide with every other Provisioning Conference; publications review and the provisioning conferences will be run concurrently
   a. Location: **CONTRACTOR'S FACILITY/SUBCONTRACTOR**
   b. Date: **EVERY 30 DAYS AFTER START OF WORK MEETING, until all data has been submitted**
   c. Time: **0800-1700**
   d. Estimated number of days: **5**
   e. The Contractor ***shall not*** be required to have a sample of the component/end item at the conference.

3. The sample article ***will not*** be disassembled at the conference.

4. A Provisioning Preparedness Review ***is*** required. This will be handled by reviewing 5% of the LSA-036 report 14 days prior to the Conference.

5. Incremental submission of PTD (LMI Data & Drawings) ***is*** **authorized**. Incremental submittals must be arranged prior to the sending of data. Any incremental submittal must contain one assembly.

ATTACHMENT 3 — PROVISIONING

6. Provisioning Screening ***is*** required.

   Screening results ***will*** be required to be entered into the PMR.

7. A Resident Provisioning Team (RPT) ***will not*** be established.

8. Commercial Drawings and LMI Drawing products media shall be:

   a. ***Hard Copy*** at each conference.
   b. ***Electronic Format (See CDRL A013)***

9. LMI Drawing Support will be sequenced by:

   a. ***PLISN*** order for hard copy review at conference
   b. ***Part Number*** order for electronic submission
   c. ***Order of PLISN sequence to Part Number***

10. T ools and Test Equipment ***will*** *be inc*luded as part of the LMI Data Products (PPL).

11. Repair Kits and Repair Part Sets ***will*** be included in the LMI Data Products (PPL).

12. Repair Kits ***will*** be included in the LMI Data Products (PPL).

13. Bulk material that is required to fabricate items that are coded "M" (make) ***will*** also be listed on the LMI Data Products (PPL).

General Publications Requirements

1.0 PREPARATION INSTRUCTIONS. You shall deliver DA Technical Manuals (TM), National
Maintenance Work Requirements (NMWRs), Electronic TMs (ETM) in Portable Document
Format (PDF) In Accordance With (IAW) guidance below:
2.0 Requirements for publication deliveries shall be as follows:
2.1 Draft Equipment Publication (DEP). For DEP delivery, the
Contractor shall provide complete publication(s), that is, validated draft data in DA TMs and
ETMs. DEP manual(s) shall be hardcopy and shall be representative of the final product. Contents must be clearly legible with content and format as for final. DEP TM hardcopies shall
be reproduced back-to back, collated and assembled, with each copy drilled for standard threehole
punch. **See Paragraph 5 below for PDF ETM requirements.**
2.2 Final Draft Equipment Publication (FDEP). For FDEP delivery you shall provide complete
publication(s). FDEP shall include all changes and final resolutions resulting from government
reviews and tests as well as your quality reviews and final edit. Illustrations shall be inked and
all call-outs and text shall be typeset. FDEP manual(s) delivery shall include quantities as
stated on the Contract Data Requirements List (CDRL) and consists of the following:
2.2.1 Copies of final paper manual(s) in the necessary quantities as per the proper CDRLs each
reproduced back-to-back, collated and assembled, and drilled for standard three-hole punch.
2.2.2 Final Reproducible Copy (FRC) shall be single-sided reproducible pages, collated and
ready for one-to-one reproduction. FRC pages produced from a 600 dot-per-inch (minimum)
laser printer or Photo Mechanical of original master paste-up boards are acceptable. The intent
is to receive crisp, clear, reproducible pages without paste-up, ready for one-to-one reproduction without additional work or loss of quality due to handling or storage.
3.0 SPECIFICATIONS:
3.1 MIL-STD-40051-2, DoD Standard Practice, Preparation of Digital Technical Information for
Page-Based TMs.
3.2 MIL-HDBK-1222C (TM), DoD Handbook, Guide to the General Style and Format of US
Army Work Package TMs. This Handbook contains style and format guidance for both IETMs
and paper/PDF TMs. It should be used in conjunction with both MIL-STD-40051-1 and MILSTD-
40051-2.

3.3 MIL-PRF-63004D, Lubrication Order
4.0 CLARIFICATIONS:
4.1 Safety information, army unique warnings and noise hazard profile related to noise hazards
shall be added to commercial manual supplemental data or DA TMs if 85 dB9A noise level is
exceeded. NOTE: DO NOT include any Class I Ozone Depleting Chemicals (ODC's) or reference to ODC's in the commercial manuals with supplemental data or DA TMs.

Attachment X
General Publications Requirements

4.2 All illustrations shall be line drawings, unless otherwise directed or approved by the government. Digital photographs may be used where the clarity of information is better than line
drawings would provide or where there are other advantages to the TM users, however, the use
of digital photographs must be approved by the government.
4.3 Illustrations in operation and maintenance instructions shall be isometric and provide a view
as seen by user. Illustrations shall appear on same or facing page as applicable text; quantity
and type of illustration shall allow user to locate items and operate and maintain equipment in
an accurate and efficient manner.
4.4 Incorporate appropriate lubrication instructions into the Operator and Unit Preventive Maintenance Checks and Services (PMCS) at the applicable hard time intervals IAW Military
Standard (MIL-STD)-40051-2. Or develop and deliver lubrication information in a Lubrication
Order, IAW MIL-PRF-63004D. Include Army Oil Analysis Program (AOAP) instructions, if applicable and any initial, onetime or warranty related requirements.
4.5 Prepare an operator/crew PMCS IAW MIL-STD-40051-2. The operator/crew checks and
services must require only the common tools which are included in the Basic Issue Item's
furnished with and stored on the vehicle during operation. Operator/crew PMCS will include
intervals such as; before, during, after, weekly and monthly, as applicable.
4.6 Prepare a Unit PMCS containing Unit level tasks IAW MIL-STD-40051-2. The Unit PMCS
will include intervals such as; Quarterly, Semiannually or Annually.
4.7 Develop and update a Maintenance Allocation Chart (MAC) IAW MIL-STD-40051-2. The
MAC shall be in Functional Group Code (FGC) sequence to conform to structure of Technical
Manuals and MIL-STD-40051-2. You shall update the MAC throughout the performance period
of the contract, including results of your analysis, vehicle testing, validation, verification and
review of applicable Logistics Management Information (LMI) data. You shall perform an

analysis to identify the extent of repair for each potentially repairable item and recommend the
maintenance level to perform the work within the Army Maintenance System (AR 750-1, chapter
3, section 3, paragraphs 3-8 through 3-11), which can be found at the following WEB address:
http://www.atsc-army.org/cgi-bin/atdl.dll/ar/750-1/ar7501topc.htm
Variables such as item price, parts prices, failure rates of the repairable item, and piece parts,
labor costs, and the cost of special tools and equipment shall be considered.
4.8 Prepare Components of End Item (COEI) and Basic Issue Items (BII) lists as supplemental
data page(s) IAW MIL-STD-40051-2.
4.9 Prepare Additional Authorized List (AAL) as supplemental data page(s) IAW MIL-STD-
40051-2.
4.10 Prepare an updated, revised Appendix A, References: see MIL-STD-40051-2.

Attachment X
General Publications Requirements

4.11 Prepare set-up pages (Task Boxes) information for all maintenance tasks IAW MIL-STD-
40051-2. Set-Up information includes (but limited too): Test Equipment, Tools and Special
Tools, Materials/Parts (expendables/durables and spare/repair part), Equipment Condition,
Drawing (this section will include reference to the Repair Parts and Special Tools List (RPSTL),
and Estimated Time to Complete Task.
4.12 Transportability Data for disassembly and assembly for all vehicles required to meet all
transport modes called out in the contract shall be added to the operator's manual. This data
may be added as an appendix to the manual. The contractor shall include a reference identifying the location of tools and equipment required for preparation of transport.
4.13 A list of components susceptible to damage from the biological/chemical-decontaminant
DS2 must be included in the TM.
4.14 TMs must provide a reference to decontamination procedures. (Field Manual (FM) 3-5,
entitled "NBC Decontamination".)
4.15 TMs must include a list of components susceptible to High-altitude Electromagnetic Pulse
(HEMP).
4.16 Operator TM must include long term and short term storage requirements, any exercise of
equipment needed to prevent deterioration.
5.0 ADOBE ACROBAT ETMs:
5.1 The contractor shall develop separate ETMs from the DA TMs using the portable document

exchange system Acrobat (Adobe Systems Acrobat Version 4.0 or higher) PDF. These files will
not have any linking done, but they shall be editable and searchable. Content of DA TMs shall
meet the content requirements of MIL-STD-40051-2 as appropriate. The PDF files of each
Technical Manual must be distilled or produced electronically from the TM and shall match
exactly the content of the TM.
5.2 The contractor shall create editable files containing all the text of the ETMs. The contractor
will also create Computer Graphics Metafile (CGM) or Consultative Committee on International
Telephony and Telegraphy (CCITT) Group 4 files or Tag Image Format Files (TIFF) containing
all the graphics/line drawings of the ETMs.
5.3 The contractor shall deliver each Acrobat PDF ETM on an International Organization for
Standardization (ISO) 9660 CD-ROM. NMWR(s) shall be delivered on separate ISO 9660 CDROM(
s). Deliver the separate editable files and graphic files will also be accomplished on separate ISO 9660 CD-ROMs.

Attachment X
General Publications Requirements

5.4 The contractor shall provide the government with validated draft DA TMs IAW the CDRLs.
The contractor's validation shall be hands-on live testing, desk-top review, or a combination of
these methods to ensure that the draft ETMs are fully operational so that the government can
evaluate their operation, navigation, and structure. The paper copy draft and the ETMs shall be
mutually inclusive of data, text and art, and format. The contractor shall give the government a
30-day notice of the time and place of their validation so the government may attend.
5.5 The contractor shall provide the government with final draft ETMs and paper final draft DA
TMs IAW the CDRLs. All errors discovered by the government or contractor during validation,
verification, and reviews shall be corrected by the contractor at no additional charge.
5.6 The Acrobat PDF ETMs shall not contain linking, unless permission to link is granted by
government publications representatives. If approved by government publications representative, linking must meet LOGSA PDF linking requirements.

Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning On-Line System (POLS) Requirements

1.0 PREPARATION INSTRUCTIONS. The contractor shall prepare and deliver RPSTL in accordance with the requirements, quantities, and schedules set forth in the Contract Data Requirements List (DD Form 1423) and this attachment.

1.1 Draft Equipment Publication (DEP). The contractor shall request a Government printed YWX proof RPSTL output for inclusion in the DEP. The contractor shall deliver a validated DEP, which consists of:

1.1.1 Draft cover, front matter, introduction (Work Package 1). Submit on 8-1/2 x 11-in. bond in single-spaced manuscript format.

1.1.2 Draft Illustrations. Submit on 8-1/2 x 11-in. bond.

1.1.3 Draft RPSTL output (Work Packages 2 and 3).

1.1.4 Draft RPSTL Index output (Work Package 4). Submit draft RPSTL Index with the same Julian date as the draft RPSTL being submitted (Julian date is located on the upper left-hand corner of the Draft and Index cover sheet). DEP shall be delivered in quantity stated on DD Form 1423. For DEP, illustrations need not be inked and may have hand-written callouts but shall be in final format and complete content. DEP may contain hand written corrections, as long as such corrections do not affect more than 10% of RPSTL line item entries. All annotations, however, must be clearly legible, and parts list corrections for non-RPSTL Technical Manual (TM) data elements must be accompanied by transactions to correct the Provisioning Master Record (PMR).

1.2 Final DEP (FDEP). The contractor shall request that and the Government provide an YWX Proof RPSTL output for contractor inclusion in the FDEP. FDEP deliverable shall consist of:

1.2.1 Original Final Reproducible Copy (FRC) of final RPSTL: Cover, front matter, introduction, Work Package 2 II Parts List with illustrations, Work Package 3 Special Tools List, and Work Package 4 Indexes.

1.2.2 PDF copy of approved FDEP on Compact Disk-Read Only Memory (CD-ROM) and editable copy of delivered on CD-ROM as stated on DD Form 1423.

1.2.3 Copies of FDEP in quantity stated on DD Form 1423, each copy reproduced back-to-back and punched for standard 3-hole binder.

1.3 FDEP Copy Deliverable. If required by DD Form 1423, the Contractor shall deliver FDEP
copies for Government review and approval prior to delivery of FDEP FRC with additional
copies. This submission before FRC delivery, when procured, helps avoid unnecessary handling or shipment of FRC materials.
1

Attachment X
Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning
On-Line System (POLS) Requirements

2.0 SPECIFICATIONS. The following specifications shall apply. Contractor shall use latest
edition available at time of award.
2.1 MIL-STD-40051-1, Department of Defense (DoD) Standard Practice, Preparation of Digital
Technical Information for IETMs.
2.2 MIL-STD-40051-2, DoD Standard Practice, Preparation of Digital Technical Information for
Page-Based TMs.
2.3 MIL-HDBK-1222C (TM), DoD Handbook, Guide to the General Style and Format of US
Army Work Package TMs. This Handbook contains style and format guidance for both IETMs
and paper/PDF TMs. It should be used in conjunction with both MIL-STD-40051-1 and MILSTD-
40051-2.
2.4 ADSM 18-LEA-JBE-ZZZ-UM-05 (dated 9 May 97), Automated Data Systems Manual Commodity Command Standard System Users Manual, RPSTL.
2.5 ADSM 18-LEA-JBE-ZZZ-UM-06 (dated 15 Apr 02), Automated Data System Manual Commodity Command Standard System Users Manual, Provisioning System.
2.6 TB 750-93-1 (with Change 5, Dated 27 Jun 1983) Functional Grouping Codes (FGC):
Combat, Tactical, and Support Vehicles and Special Purpose Equipment.
3.0 CLARFIFICATION OF SPECIFICATIONS. Requirements of the governing specifications
are clarified as follows:
3.1 MIL-HDBK-1222C:

Reference(Paragraph) Clarification

B.5.3 The darkness, weight and sharpness of lines shall be sufficient to reproduce clearly at required reproduction size without additional treatment.
B.5.6 Do not use Photographs in RPSTLs.
B.5.7 Engineering drawings are not acceptable as RPSTL illustrations.
3.2 MIL-STD-40051:

Reference(Paragraph) Clarification

F.5.3.1 Separate RPSTL TM shall be developed.
2

Attachment X

Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning On-Line System (POLS) Requirements

3.2.1 All FGCs, including Subgroup codes, listed in the Maintenance Allocation Chart (MAC)
that are applicable to the maintenance level of the RPSTL shall be listed in the table of contents.
If the RPSTL TM includes National Level parts the statement "Including National Maintenance
Repair Parts" shall be added to the title of the RPSTL TM.
3.2.2 The Repair Parts List shall be in ascending numerical order by functional groups as listed
in the MAC. Group numbers shall be assigned IAW TB 750-93-1. Figures shall be numbered in
ascending sequence throughout the manual.
3.2.3 Additional description or extended nomenclature to the approved federal item name in the
provisioning file should be limited. Only information essential to identifying the assembly or part
shall be added (such as "left", "right", "make from...) except for the following: bolts and screws
shall include the size, length, thread class and grade, following the item name. When an assembly is the last item in a given figure and its repair parts are illustrated in the figure immediately following, the parts shall be indented one space more than the assembly.
3.2.4 When an assembly and its parts are in the same figure, the parts shall be indented one
space further right than the assembly.
3.2.5 Kit listing shall be in a separate FGC titled "GROUP 9401 REPAIR KITS". Kits shall fall
out in ascending alphanumeric part number sequence (an automatic sort from correct data
entry) and shall not be assigned item numbers.
3.2.6 Kit repair parts shall be listed with their applicable figure and appear in item number
sequence. The statement "PART OF KIT P/N (kit P/N)" shall follow the item name. This statement appears automatically through correct use of the provisioning and RPSTL data entry
process.
3.2.7 Only one FGC shall appear in a figure. The headers for lists shall be all caps and shall
contain the same basic wording and information as the associated figure title and functional
group title used in the MAC and TB 750-93-1. See example in clarification of ADSM 18-LEA-JBE-ZZZ-UM-05 below. Figure numbers and titles on illustrations shall be upper case
for the first letter of principle words.
3.3 TB 750-93-1:

Reference(Paragraph) Clarification

6 Add component FGC "94 Kits".
7 Add component FGC "94 Kits". Add subgroup code "9401
Kits and Related Parts".

3.4 ADSM 18-LEA-JBE-ZZZ-UM-05:
Contractor shall not deliver 80-column worksheets; all RPSTL TM data entry shall be by terminal (using modem) or by other electronic media. When using a modem, Bits Per Second
(BPS) or baud rate affects speed or transactions. Recommend contractor use modem capable
of at least 2400 BPS.
Reference(Paragraph) Clarification
3.2.3 Entry of DIC YWT, FGC Header Maintenance, is via electronic media or modem into RPSTL download IAW this ADSM. Entry of FGC headers is recommended after validation to eliminate need for post-validation changes. Batch Entry via electronic media shall be 80-column worksheet format with data entered in card columns as defined.
3.2.3b
Card Column 8-18
FGC entry shall agree with TM-FGC entered on corresponding "M" card.
3.2.3b
Card Column 19-54
YWT FUNC NARR presents figure number and legend.
FUNC NARR shall be as follows:
a) Basic Group FGC (required only for the first figure of each basic functional group).
b) Subgroup FGC.
c) Figure number and legend.
Example:
GROUP 01 ENGINE
GROUP 0100 ENGINE ASSEMBLY
FIG. 1 ENGINE ASSEMBLY, UPPER
3.3.1 All input requests for output products will be processed by the Government.
6.5.3 Contractor shall not perform RPSTL workfile (AKA download) maintenance (i.e., make corrections to the parts list in the workfile) until after delivery and Government review and acceptance of DEP. Prior to acceptance of DEP, all changes to parts list RPSTL TM data shall be made to the PMR. Contractor may make corrections only to header data portion of RPSTL workfile prior to DEP delivery and acceptance.

Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning
On-Line System (POLS) Requirements

3.5 ADSM 18-LEA-JBE-ZZZ-UM-06:

Reference(Paragraph) Clarification

3.2.3b Initial entry of RPSTL TM data elements to Provisioning Line Item Sequence Number (PLISN) records already established in the PMR are update data (not new data) transactions.

F-1 To avoid having to delete and add key data element and all associated field data when changing a key data element, recommend contractor process all RPSTL TM data changes on-line (using modem). See also clarification to paragraph "G-2, G-3, G-14 and G-15" below.

G-2, G-3, G-14 Batch entry of RPSTL TM "M" and "N" card data shall be by electronic media using 80-column worksheet format with data entered in columns as required by "Provisioning Contract Control Number and PLISN", "Action Code" "CFI M" and "CFI N" element descriptions. Recommend batch entry be used for initial RPSTL TM data entry only (see clarification for paragraph "F-1" above). For batch entry of FGC header data, see clarification for ADSM 18-LEA-JBE-ZZZ-UM-06, paragraph 3.2.3b above.

G-14 On page G-19, in Definition of "*FUNC-CD*", delete "Enter only on the O1G card."

G-15 If an item will appear more than once in a RPSTL with same extended nomenclature, “N” card data must be input for each TM appearance.

G-15 On page G-20, in Definition of "*PROV-NOMEN*", change " 02H card" to "02N card"

Attachment X
Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning
On-Line System (POLS) Requirements

3.6 RPSTL TM Data Element Entry. TM Data can be input into the PMR by terminal (using modem)(ADSM 18-LEA-JBE-ZZZ-UM-06), into the RPSTL workfile/download by terminal (using modem)(ADSM 18-LEA-JBE-ZZZ-UM-05), or into the PMR by electronic media (80-column worksheet format with data entered in columns as required by ADSM 18-LEA-JBE-ZZZ-UM-06 for “M” and “N” card data and by MIL-PRF-49506 (dated 11 Nov 96)(Logistics Management Information) for non- “ M” or “N" card data). Some of these entries are clarified as follows:

ADSM-05 Para

6.5.3
ADSM-06 App G Clarification
Basis of Issue (BOI)
Level
CFI M BOI-LVL-1 When entering RPSTL data for a special tool or special tool kit, certain data can be entered to obtain one or more messages in the proof RPSTL. The Government will provide BOI requirements.
CFI A IND-CD When entering RPSTL data for an item that is part of a kit (i.e., item source-coded KD, KF, KB), an asterisk shall be entered. (For entry via electronic media, see the provisioning portion of this contract.)
Next Higher Assembly (NHA) PLISN
CFI D NHA-PLISN When entering RPSTL data for an item that is part of a kit (i.e., item source-coded KD, KF, KB), two PLISNs shall be entered in this block: the kit PLISN and the assembly PLISN on which the kit repair part is used. (For entry via electronic media, see the provisioning portion of this contract.)
NHA-PLISN (6th Position)
CFI D NHA-IND RPSTL data entry for an item that is part of a kit (i.e., item source coded KD, KF, KB) shall have an asterisk entered for the kit PLISN (not for the assembly-on-which-kit is used PLISN). (For entry via electronic media, see the provisioning portion of this contract.)
TM-CODE CFI M TM-CD (and)CFI N TM-CD
Government will provide TM Code.
FIG-NO CFI M FIG-No.(and) CFI N FIG No.
For RPSTL data entry for a kit: "KITS" shall be entered. For RPSTL data entry for 1 bulk material: "BULK" shall be entered in this four-character field.
ITEM-NR CFI M ITEM-NR (and) CFI-N ITEM NR
Entry shall be right justified. Do not zero fill unused blocks. For RPSTL data entry for a kit or entry for bulk material, entry shall be blank.
TM-CH-NO. CFI M TM CHG-NO. For new or revised RPSTLs, leave blank. For a TM Change publication, entry is right justified, zero filled.

Attachment X
Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning

On-Line System (POLS) Requirements

TM-IND-CD CFI M TM-IND-CD If no indenture is required, leave blank; do not enter zero. Entering a Number causes nomenclature to indent said number of spaces. Shows an item's relationship within an assembly. This relationship is also indicated by NHA PLISN and both shall agree. Indenture shall not exceed 5 spaces. For RPSTL data entry for a kit, leave blank. For RPSTL data entry for a bulk item, leave blank.

QTY-PER-FIG CFI M

QTY-PER-FIG

Numeric entry shall be right justified with unused characters zero-filled. "V" (for variable) shall be left-justified, no zero fill (remaining characters blank). For RPSTL data entry for a kit, the quantity per figure shall be equal to the number of assemblies on which the kit is used. For special tool, special tool kit, and tool within special tool kit RPSTL data entry, leave blank.

7

Attachment X

Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning

On-Line System (POLS) Requirements

TM-FGC CFI M FUNC-CD In building and accessing a RPSTL workfile, the automated process sorts and sequences RPSTL data by TM Code, by TM FGC and then item number (not figure number). Therefore, a unique and sequential extended FGC must be entered for each figure in the RPSTL. Unless otherwise determined at start of work meeting, or otherwise required for TM Change preparation due to existing FUNC-CD file structure, extended FGCs shall be as follows:

For items other than kits, bulk material, special tools, special tool kits and tools within a special tool kit, enter the four-digit FGC in first four characters. Leave 5th character blank. 6th through 9th characters shall contain the figure number, right justified, with unused blocks zero filled. 10th and 11th characters shall be blank.

For a kit RPSTL data entry, enter kit FGC " 9401" in first four characters. Leave 5th character blank. 6th through 8th characters shall have "KIT" entered. 9th through 11th characters shall contain kit sequencing number, determined as follows:

Kits shall appear in part number sequence in FGC 9401. First kit shall have 010 in 9th through 11th characters, second kit shall have

020, and so on. This method permits addition of kits to the FGC. For a bulk material RPSTL data entry, enter bulk material FGC " 9501" in 1st through 4th characters. Leave 5th character blank. 6th through 9th characters shall have "BULK" entered. 10th and 11th characters shall be blank. For a special tool a special tool kit, or a tool within special tool kit RPSTL data entry, enter FGC " 2604" in 1st through 4th characters. Leave 5th character blank. In 6th through 9th character enter figure number, right justified, with unused blocks zero filled. 10th and 11th characters shall be blank.
8

Attachment X

Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning

On-Line System (POLS) Requirements

PROV-NOMEN CFI N PROV-NOMEN Extended nomenclature, only as required, shall be
entered. Entry shall be left justified, except for RPSTL data entry for a tool in a special tool kit.
For RPSTL data entry for a tool in a special tool kit: quantity statement shall be entered right justified (example: QTY: 1 PER SET).
For RPSTL data entry for a manufactured item (i.e., item source-coded MO, MF, MH, ML or MD), entry shall be "MAKE FROM (enter applicable bulk material or other replaceable item name) P/N (enter number)."
Do not enter kit identification data for kit parts (i.e. parts coded KD, KF or KB). "PART OF KIT.... " information automatically prints out when kit part data is properly entered elsewhere.
Extended nomenclature includes dimension or size information only when like items may be confused unless further identified by dimension or size (for example, oversize parts, shims, and gaskets), or when describing bolts, nuts and screws.
4.0 DELIVERY SCHEDULE. Deliver RPSTL products IAW with DD Form 1423.
5.0 GOVERNMENT FURNISHED INFORMATION. The Government will furnish the following
information:
5.1 TM Number and TM Code.
5.2 User Identification and Passwords (for terminal data entry).
5.3 BOI information.
5.4 Specifications cited-
5.5 YWU Draft RPSTL outputs, YWX Proof RPSTL output,
other RPSTL outputs described by ADSM-18-LEA-JBE-ZZZ-UM-05, and paragraph 3.3.1 (as
required or requested by contractor).

Attachment X
Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning
On-Line System (POLS) Requirements

5.6 Provisioning Format output Listing, Summary Parts Index
PLISN to Part Number sequence, Summary Parts Index Part Number to PLISN Sequence,
Provisioning Technical Documentation (PTD) Transaction History, Validation Reject Listing or
other provisioning file outputs described by ADSM-18-LEA-JBE- ZZZ-UM-06, paragraph 3.4.1
(as required or requested by contractor).
5.7 ADD ANY OTHER INFORMATION TO BE PROVIDED, e.g., user
comments (DA Form 2028) to current manuals, approved engineering changes, copy of current
manual(s), or copy of current artwork and drawings.
6.0 ORDERING DATA.
6.1 RPSTL is a separate manual **OR** RPSTL is an
appendix to a narrative manual **OR** Depot Maintenance Work Requirements.
6.2 The maintenance level(s) to be covered is (are):
OR
6.3 The maintenance level(s) shall be determined
upon approval of the MAC.
6.4 The "Current as of" date will be the date of the
RPSTL download (YWU output) used for preparation of final (proof) RPSTL.
6.5 "Reporting Errors and Recommending Improvements"
statement is:
6.6 Manual title is:
6.7 This component item RPSTL is used to support the following end item(s):
6.8 Contractor shall notify Government in advance of abbreviations used which are not contained in ASME-Y14.38.
6.9 Illustration identification numbers are not required.
6.10 Suppression notice shall be provided at start of work of work meeting.
6.11 Artwork and drawings to be furnished, if any, is listed under Government furnished information paragraph above.
6.12 Applicable publication references will be provided at start of work meeting.
6.13 The MAC or changes thereto will be drafted by the contractor and approved by the Government.

Attachment X
Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning
On-Line System (POLS) Requirements

6.14 In-process reviews will be held. See Attachment 8 (Publication Requirements).
6.15 See DD Form 1423(s) for TM Contents Matrix.
OR
6.16 RPSTL Change shall follow format of current manual.
6.17 When the Government accepts a manuscript with the provision that errors will be

corrected, the contractor must correct errors within 30 calendar days following notification, at no
cost to the Government.
7.0 VALIDATION. The contractor shall validate the DEP IAW with Paragraph 10 below and
with Attachment 8 (Publication Requirements).
8.0 VERIFICATION. Government verification shall be performed IAW Paragraph 10 below and
with Attachment 8 (Publication Requirements) and the following: Government may also observe
contractor validation, test contents at Government hands-on verification of narrative manuals,
and review contractor validation and quality assurance records as part of verification.
9.0 QUALITY ASSURANCE/QUALITY CONTROL.
9.1 You shall be responsible for the quality of the
RPSTL and for developing effective processes to develop, test and inspect the deliverables,
ensuring technical accuracy, usability, completeness (within the scope of the contract), consistency and generally meet contract requirements prior to delivery.
9.2 You shall support In Process Reviews (IPRs) by
providing samples of work accomplished to date or other requested data and identify improvements to your manuals, data or QA process required as a result of IPR comments. We
may witness your validation of the supplemental data and ETMs.
9.3 We may use the RPSTL when testing the end item(s) to determine their accuracy and
usability.
9.4 We will evaluate the RPSTL for compliance to
contract requirements to determine acceptance. Our usability standard for acceptance of a TM,
in addition to requirements already stated, will be based on our determination that all information is presented in such a way that it can be easily identified and found, read and
understood, and includes illustration support where needed.
9.5 If we find errors or deficiencies in your
deliveries during our reviews or testing you shall correct them at no additional cost to us.

Attachment X
Repair Parts and Special Tools List (RPSTL) CCSS Development and Provisioning
On-Line System (POLS) Requirements

10.0 DESCRIPTION OF RPSTL DEVELOPMENT PROCESS.
10.1 Preparation of the RPSTL shall be accomplished in four phases: input phase, draft retrieval/validation phase, verification phase and FRC production phase.
10.2 Phase I: Input Phase. During the input phase, the contractor shall perform the following
tasks:
10.2.1 Using appropriate source data, (examples provisioning file data, engineering drawings,
MAC) identify the items to be included in the RPSTL.

10.2.2 Assign basic four-digit FGC IAW TB 750-93-1.
10.2.3 Develop draft illustrations (illustrations shall be line drawings; half tones are not allowed).
10.2.4 Develop RPSTL TM data elements. Enter this data into the PMR using the terminal
method (through a modem) IAW ADSM 18-LEA-JBE-ZZZ-UM-06. Or using the batch method
(via electronic media) using 80-column worksheet format with entries in columns defined by
ADSM 18-LEA-JBE-ZZZ-UM-06 for "M" and "N" card data and defined by MIL-PRF-49506 for
non-"M" or "N" card data. RPSTL TM data elements include:
• Technical manual code (key data element)
• Figure number (key data element)
• Item number (key data element)
• Technical manual change code (for TM Change publications only)
• Technical manual indenture code
• Quantity per figure
• Technical manual FGC (extended code to provide RPSTL sequencing)(key data element except for "N" card)
• Provisioning nomenclature (extended nomenclature, only as required in addition to provisioning item name)
• Basis of issue level (as applicable for special tool or special tool kit only)
• Indenture code asterisk, NHA PLISNs and NHA indenture (only for items that are part of a kit)
10.2.5 Using Validation Reject Listing, PTD Transaction History, File Maintenance Reject
Report, RPSTL Edit List and other appropriate outputs, the contractor shall input transactions to
correct rejects or provide missing data. Contractor shall repeat this step until all items are input
into the PMR correctly.

10.3 Phase II: Retrieval/Validation Phase. During this phase, the following tasks shall be accomplished:
10.3.1 The contractor will request and Government will provide a YWU draft RPSTL output:
Draft RPSTL, current Rejected Records, Review Listing (as applicable), and Index (if required).
10.3.2 The contractor shall review RPSTL draft/workfile to insure data is complete and ready for
RPSTL validation. If draft/workfile is incorrect or incomplete, contractor shall input transactions
to correct PMR as required and request Government delete current draft/workfile. Contractor

shall continue to request and review RPSTL draft/workfiles, request deletions of draft/workfiles
and input corrections to the PMR until complete and accurate RPSTL draft/workfile is obtained.
10.3.3 When contractor achieves a draft RPSTL output, which is correct, and complete, the
contractor shall compile the draft illustrations, draft RPSTL printout and introduction and validate
them.
10.3.4 After validation is complete, the contractor shall either request deletion of workfile, correct PMR, and obtain an new draft workfile for revalidation/submission to the Government or
use the validated current download as basis for DEP delivery to the Government.
NOTE
Submitting FGC headers after validation is recommended here only to help eliminate post-validation header changes. Headers can be entered into the download by tape as early as
when the first parts list download is requested, or can be entered by tape or terminal (using
modem) anytime after parts list download exists.
10.3.5 Before delivery of validated DEP, contractor shall submit YWT transactions (FGC headers) and request RPSTL download file copy with headers for DEP hard copy submission to
the Government. (See DEP deliverable, paragraph 1 above.)
10.4 Phase III: Verification Phase.
10.4.1 The Government will verify the DEP. See paragraph 8.0 (VERIFICATION) above.
10.4.2 Government shall furnish results of the verification to the contractor.
10.4.3 If DEP fails verification, Contractor shall prepare and resubmit validated DEP. (See
Attachment 8, Publication Requirements).

10.5 Phase IV FRC Preparation. During the FRC preparation, after DEP passes verification, the
following actions shall be performed:
10.5.1 Contractor shall make parts list and header corrections, if any, into the RPSTL workfile
by terminal using modem (ADSM 18-LEA-JBE-ZZZ-UM-05).
10.5.2 Contractor shall input corrections, if any, required to non-RPSTL TM data elements
(non-M and N card CCSS data) into the PMR.
10.5.3 Contractor shall make corrections, if any, to cover, front matter, introduction or illustrations and finalize illustrations and text.
10.5.4 Contractor shall request and Government will provide TWX Proof RPSTL output for
inclusion in FDEP.

10.5.5 After performing final edit to assure FDEP is complete and correct, contractor shall
develop .PDF file and deliver FDEP (See Attachment 8, Publication Requirements).
10.5.6 The Government will perform a final edit to insure that the FDEP RPSTL has incorporated all verification comments/corrections and is complete and suitable for reproduction
(See Attachment 8, Publication Requirements).

TABLE A-II. TM Requirements Matrix for _____.

TM Content	-10	-12 -12&P	-13 -13&P	-14 -14&P	MIL-STD-40051-2 Reference	Element Name
FRONT MATTER	R	R	R	R	5.2.1	<paper.frnt>
Front cover	R	R	R	R	5.2.1.1	<frntcover>
(MC) Promulgation letter					5.2.1.2	<promulgation>
Warning summary					5.2.1.3	<warnsum>
Change transmittal page					5.2.1.4	<chgsheet>
List of effective pages / work packages *(Excluding pocket TMs and publications with less than eight pages)*	R	R	R	R	5.2.1.5	<loepwp>
Title block page	R	R	R	R	5.2.1.6	<titleblk>
Table of contents	R	R	R	R	5.2.1.8	<contents>
How to use this manual	R	R	R	R	5.2.1.9	<howtouse>
CHAPTER 1. GENERAL INFORMATION, EQUIPMENT DESCRIPTION AND THEORY OF OPERATION	R	R	R	R	B.5.1	<gim>
GENERAL INFORMATION WORK PACKAGE	R	R	R	R	B.5.2	<ginfowp>
Scope	R	R	R	R	B.5.2.3	<scope>
Maintenance forms, records, and reports	R	R	R	R	B.5.2.4	<mfrr>
Reporting equipment improvement recommendations (EIR)	R	R	R	R	B.5.2.5	<eir>
Hand receipt (HR) manuals					B.5.2.6	<handreceipt>
Corrosion prevention and control (CPC)	R	R	R	R	B.5.2.7	<cpcdata>
Ozone depleting substances (ODS)					B.5.2.8	<odsdata>
Destruction of Army materiel to prevent enemy use	R	R	R	R	B.5.2.9	<destructmat>
Preparation for storage or shipment	R	R	R	R	B.5.2.10	<pssref>
Warranty information					B.5.2.11	<wrntyref>
Nomenclature cross-reference list					B.5.2.12	<nomenreflist>
List of abbreviations/acronyms	R	R	R	R	B.5.2.13	<loa>
Quality of material	P				B.5.2.15	<qual.mat.info>
Safety, care, and handling					B.5.2.16	<sftyinfo>
Nuclear hardness					B.5.2.17	<hcp>
Calibration					B.5.2.18	<calref>
Supporting information for repair parts, special tools, TMDE, and support equipment	P				B.5.2.25	<supdata>
Copyright credit line					B.5.2.26	<copyrt>

TABLE A-II. TM Requirements Matrix for _____.

TM Content	-10	-12 -12&P	-13 -13&P	-14 -14&P	MIL-STD-40051-2 Reference	Element Name
EQUIPMENT DESCRIPTION AND DATA WORK PACKAGE	R	R	R	R	B.5.3	<descwp>
Equipment characteristics, capabilities, and features	R	R	R	R	B.5.3.3	<eqpinfo>
Location and description of major components	R	R	R	R	B.5.3.4	<locdesc>
Differences between models					B.5.3.5	<eqpdiff>
Equipment data	R	R	R	R	B.5.3.6	<eqpdata>
THEORY OF OPERATION WORK PACKAGE	R	R	R	R	B.5.4	<thrywp>
CHAPTER X. OPERATOR INSTRUCTIONS	R	R	R	R	C.5.1	<opim>
DESCRIPTION AND USE OF OPERATOR CONTROLS AND INDICATORS WORK PACKAGE	R	R	R	R	C.5.2.3	<ctrlindwp>
OPERATION UNDER USUAL CONDITIONS WORK PACKAGE	R	R	R	R	C.5.2.4	<opusualwp>
Security measures for electronic data					C.5.2.4.3	<secref>
Siting requirements					C.5.2.4.4	<site>
Shelter requirements					C.5.2.4.5	<shelter>
Assembly and preparation for use					C.5.2.4.6	<prepforuse>
Initial adjustments, before use and self-test					C.5.2.4.7	<initial>
Operating procedures	R	R	R	R	C.5.2.4.8	<oper>
Decals and instruction plates					C.5.2.4.8.2	<instructplt>
Operating auxiliary equipment					C.5.2.4.9	<operaux>
Preparation for movement					C.5.2.4.10	<prepmove>
OPERATION UNDER UNUSUAL CONDITIONS WORK PACKAGE	R	R	R	R	C.5.2.5	<opunuwp>
Security measures for electronic data					C.5.2.5.3.1	<secref>
Unusual environment / weather	R	R	R	R	C.5.2.5.3.2	<unusualenv>
Fording and swimming					C.5.2.5.3.3	<fording>
Interim nuclear, biological, and chemical (NBC) decontamination procedures					C.5.2.5.3.4	<decon>
Jamming and electronic countermeasures (ECM) procedures					C.5.2.5.3.5	<ecm>
Degraded operation procedures					C.5.2.5.3.6	<degraded>
EMERGENCY WORK PACKAGE					C.5.2.6	<emergencywp>
STOWAGE AND DECAL / DATA PLATE GUIDE WORK PACKAGE					C.5.2.7	<stowagewp>
ON-VEHICLE EQUIPMENT LOADING PLAN WORK PACKAGE					C.5.2.8	<eqploadwp>

TABLE A-II. TM Requirements Matrix for _____.

TM Content	-10	-12 -12&P	-13 -13&P	-14 -14&P	MIL-STD-40051-2 Reference	Element Name
CHAPTER X. **TROUBLESHOOTING** **MASTER INDEX**					D.5.1 D.5.4.4	<tim> <masterindexcategory>
TROUBLESHOOTING INDEX WORK PACKAGE	R	R	R	R	D.5.5.5	<tsindxwp>
CHAPTER X. **TROUBLESHOOTING** **PROCEDURES** ***NOTE*** *The notation (*) indicates that, if required, at least one of the these content items shall be included*		R	R	R	D.5.1 D.5.4.2	<tim> <troublecategory>
TROUBLESHOOTING INDEX WORK PACKAGE					D.5.5.5	<tsindxwp>
**OPERATIONAL CHECKOUT WORK PACKAGES*					D.5.5.8.3	<opcheckwp>
**TROUBLESHOOTING PROCEDURES WORK PACKAGES*					D.5.5.8.4	<tswp>
**COMBINED OPERATIONAL CHECKOUT AND TROUBLESHOOTING PROCEDURES WORK PACKAGES*					D.5.5.8.5	<opcheck-tswp>
CHAPTER X. **PMCS** **MAINTENANCE INSTRUCTIONS** ***NOTE*** *PMCS is required as a minimum in one maintenance chapter*					E.5.2 E.5.2.1	<mim> <pmcscategory>
PMCS INTRODUCTION WORK PACKAGE	R	R	R	R	E.5.3.4.1	<pmcsintrowp>
PMCS, INCLUDING LUBRICATION INSTRUCTIONS, WORK PACKAGE	R	R	R	R	E.5.3.4.2	<pmcswp>
CHAPTER X. **MAINTENANCE INSTRUCTIONS** ***NOTE*** *PMCS is required as a minimum in one maintenance chapter*	R	R	R	R	E.5.2 E.5.2.2 E.5.2.3	<mim> <maintenancepmcscategory> <maintenancecategory>
SERVICE UPON RECEIPT WORK PACKAGE	P	R	R	R	E.5.3.2	<surwp>
Siting	P				E.5.3.2.3.1	<siting>
Shelter requirements	P				E.5.3.2.3.2	<shltr>
Service upon receipt of materiel	P	R	R	R	E.5.3.2.3.3	<surmat>
Installation instructions	P	R	R	R	E.5.3.2.3.4	<install>
Preliminary servicing of equipment	P				E.5.3.2.3.5	<preserv>

TABLE A-II. TM Requirements Matrix for _____.

TM Content	-10	-12 -12&P	-13 -13&P	-14 -14&P	MIL-STD-40051-2 Reference	Element Name
Preliminary checks and adjustment of equipment	P				E.5.3.2.3.6	<prechkadj>
Preliminary calibration of equipment	P				E.5.3.2.3.7	<precal>
Circuit alignment	P				E.5.3.2.3.8	<calign>
Ammunition markings	P				E.5.3.2.3.9.1	<ammo.markings>
Classification of defects	P				E.5.3.2.3.9.2	<ammo.defect>
Ammunition handling	P				E.5.3.2.3.9.3	<ammo.handling>
Procedures to activate ammunition	P				E.5.3.2.3.9.4	<arm>
Other service upon receipt task	P				E.5.3.2.3.10	<other.surtsk>
Follow-on maintenance	P				E.5.3.2.3.11	<followon.maintsk>
EQUIPMENT / USER FITTING INSTRUCTIONS WORK PACKAGE (PERSONAL USE EQUIPMENT)	P				E.5.3.3	<perseqpwp>
PMCS INTRODUCTION WORK PACKAGE	R	R	R	R	E.5.3.4.1	<pmcsintrowp>
PMCS, INCLUDING LUBRICATION INSTRUCTIONS, WORK PACKAGE	R	R	R	R	E.5.3.4.2	<pmcswp>
MAINTENANCE WORK PACKAGES ***NOTE*** *As applicable, the following maintenance tasks shall be presented in the general order listed below:*	R	R	R	R	E.5.3.5	<maintwp>
Servicing					E.5.3.5.3.3	<service>
Ground handling					E.5.3.5.3.4	<groundtsk>
Inspection of installed items					E.5.3.5.3.5	<inspinstitm>
Removal					E.5.3.5.3.6	<remove>
Disassembly					E.5.3.5.3.7	<disassem>
Cleaning					E.5.3.5.3.8	<clean>
Inspection-acceptance and rejection criteria					E.5.3.5.3.9	<acptrejinsp>
Nondestructive testing inspection (NDTI)					E.5.3.5.3.10	<ndti>
Repair or replacement					E.5.3.5.3.11	<repair-rplc>
Alignment					E.5.3.5.3.12	<align>
Painting					E.5.3.5.3.13	<paint>
Lubrication					E.5.3.5.3.14	<lube>
Assembly					E.5.3.5.3.15	<assem>
Test and inspection					E.5.3.5.3.16	<test-inspect>
Installation					E.5.3.5.3.17	<install>
Adjustment					E.5.3.5.3.18	<adjust>
Calibration					E.5.3.5.3.19	<calibration>

TABLE A-II. TM Requirements Matrix for _____.

TM Content	-10	-12 -12&P	-13 -13&P	-14 -14&P	MIL-STD-40051-2 Reference	Element Name
Radio interference suppression					E.5.3.5.3.20	<ris>
Placing in service					E.5.3.5.3.21	<pis>
Testing					E.5.3.5.3.22	<test-pass>
Preparation for storage or shipment					E.5.3.5.3.25	<pss>
Classification of defects					E.5.3.5.3.26	<ammo.defect>
Handling ammunition					E.5.3.5.3.27	<ammo.handling>
Ammunition markings					E.5.3.5.3.28	<ammo.markings>
Procedures for ammunition activation					E.5.3.5.3.29	<arm>
Additional maintenance task					E.5.3.5.3.30	<other.maintsk>
Follow-on maintenance					E.5.3.5.3.31	<followon.maintsk>
GENERAL MAINTENANCE WORK PACKAGE					E.5.3.6	<maintwp>
LUBRICATION INSTRUCTIONS WORK PACKAGE					E.5.3.7	<lubewp>
ILLUSTRATED LIST OF MANUFACTURED ITEMS WORK PACKAGE	P				E.5.3.9	<manuwp>
TORQUE LIMITS WORK PACKAGE	P				E.5.3.10	<torquewp>
WIRING DIAGRAMS WORK PACKAGE	P				E.5.3.11	<wiringwp>
CHAPTER X. AUXILIARY EQUIPMENT MAINTENANCE INSTRUCTIONS					E.5.2 E.5.2.6	<mim> <auxiliarycategory>
AUXILIARY EQUIPMENT MAINTENANCE WORK PACKAGE					E.5.3.13	<auxeqpwp>
ILLUSTRATED LIST OF MANUFACTURED ITEMS WORK PACKAGE	P				E.5.3.9	<manuwp>
TORQUE LIMITS WORK PACKAGE	P				E.5.3.10	<torquewp>
WIRING DIAGRAMS WORK PACKAGE	P				E.5.3.11	<wiringwp>
CHAPTER X. AMMUNITION MAINTENANCE INSTRUCTIONS					E.5.2 E.5.2.7	<mim> <ammunitioncategory>
AMMUNITION MAINTENANCE WORK PACKAGE					E.5.3.14.1	<ammowp>
AMMUNITION MARKING INFORMATION WORK PACKAGE	P				E.5.3.14.2	<ammo.markingwp>
FOREIGN AMMUNITION (NATO) WORK PACKAGE	P				E.5.3.14.3	<natowp>

TABLE A-II. TM Requirements Matrix for _____.

TM Content	-10	-12 -12&P	-13 -13&P	-14 -14&P	MIL-STD-40051-2 Reference	Element Name
CHAPTER X. **PARTS INFORMATION** *(-10 THROUGH -14)* *(-12&P THROUGH -14&P)*	 P P	 P R	 P R	 P R	F.5.3.2	<pim>
INTRODUCTION WORK PACKAGE	P	R	R	R	F.5.3.5	<introwp>
REPAIR PARTS LIST WORK PACKAGE	P	R	R	R	F.5.3.6	<plwp>
REPAIR PARTS FOR SPECIAL TOOLS WORK PACKAGE	P				F.5.3.7	<stl_partswp>
KIT PARTS LIST WORK PACKAGE	P				F.5.3.8	<kitswp>
BULK ITEM WORK PACKAGE	P				F.5.3.9	<bulk_itemswp>
SPECIAL TOOLS LIST WORK PACKAGE	P				F.5.3.10	<stlwp>
NSN INDEX WORK PACKAGE	P	R	R	R	F.5.3.11.1	<nsnindxwp>
P/N INDEX WORK PACKAGE	P	R	R	R	F.5.3.11.2	<pnindxwp>
REFERENCE DESIGNATOR INDEX WORK PACKAGE	P				F.5.3.11.3	<refdesindxwp>
CHAPTER X. **SUPPORTING INFORMATION** ***NOTE*** *Applicable supporting information work packages shall be arranged in the order in which they are presented here and numbered accordingly.*	R	R	R	R	G.5.1	<sim>
REFERENCES WORK PACKAGE	R	R	R	R	G.5.2	<refwp>
INTRODUCTION FOR STANDARD MAC WORK PACKAGE *(FIVE-LEVEL MAINTENANCE ONLY)* *OR* *(TWO-LEVEL MAINTENANCE ONLY)*	P	R	R	R	 G.5.3.1 G.5.3.3	<macintrowp>
MAC WORK PACKAGE *(FIVE-LEVEL MAINTENANCE ONLY)* *OR* *(TWO-LEVEL MAINTENANCE ONLY)*	P	R	R	R	G.5.3.4	<macwp>
COMPONENTS OF END ITEM (COEI) AND BASIC ISSUE ITEMS (BII) LISTS WORK PACKAGE	R	R	R	R	G.5.4	<coeibiiwp>
ADDITIONAL AUTHORIZATION LIST (AAL) WORK PACKAGE					G.5.5	<aalwp>
EXPENDABLE AND DURABLE ITEMS LIST WORK PACKAGE	R	R	R	R	G.5.6	<explistwp>
TOOL IDENTIFICATION LIST WORK PACKAGE	P				G.5.7	<toolidwp>

TABLE A-II. TM Requirements Matrix for _____.

TM Content	-10	-12 -12&P	-13 -13&P	-14 -14&P	MIL-STD-40051-2 Reference	Element Name
MANDATORY REPLACEMENT PARTS WORK PACKAGE	P				G.5.8	<mrplwp>
CRITICAL SAFETY ITEMS AND FLIGHT SAFETY CRITICAL AIRCRAFT PARTS WORK PACKAGE					G.5.9	<csi.fscap.wp>
SUPPORT ITEMS WORK PACKAGE					G.5.10	<supitemwp>
ADDITIONAL SUPPORTING WORK PACKAGES					G.5.11	<genwp>
REAR MATTER	R	R	R	R	5.2.2	<rear>
Glossary					5.2.2.1	<glossary>
Alphabetical index					5.2.2.2	<aindx>
DA Form 2028	R	R	R	R	5.2.2.3	<da2028>
Authentication page	R	R	R	R	5.2.2.4	<authent>
Foldout pages					5.2.2.5	<foldsect>
Back cover	R	R	R	R	5.2.2.6	<back>

Legend
R Required
P Prohibited
Shaded As Required

TABLE A-IV. TM Requirements Matrix for _____.

TM Content	-23 -23&P	-24 -24&P	-34 -34&P	MIL-STD-40051-2 Reference	Element Name
FRONT MATTER	R	R	R	5.2.1	<paper.frnt>
Front cover	R	R	R	5.2.1.1	<frntcover>
(MC) Promulgation letter				5.2.1.2	<promulgation>
Warning summary				5.2.1.3	<warnsum>
Change transmittal page				5.2.1.4	<chgsheet>
List of effective pages / work packages *(Excluding pocket TMs and publications with less than eight pages)*	R	R	R	5.2.1.5	<loepwp>
Title block page	R	R	R	5.2.1.6	<titleblk>
Table of contents	R	R	R	5.2.1.8	<contents>
How to use this manual	R	R	R	5.2.1.9	<howtouse>
CHAPTER 1. GENERAL INFORMATION, EQUIPMENT DESCRIPTION AND THEORY OF OPERATION	R	R	R	B.5.1	<gim>
GENERAL INFORMATION WORK PACKAGE	R	R	R	B.5.2	<ginfowp>
Scope	R	R	R	B.5.2.3	<scope>
Maintenance forms, records, and reports	R	R	R	B.5.2.4	<mfrr>
Reporting equipment improvement recommendations (EIR)	R	R	R	B.5.2.5	<eir>
Hand receipt (HR) information			P	B.5.2.6	<handreceipt>
Corrosion prevention and control (CPC)	R	R	R	B.5.2.7	<cpcdata>
Ozone depleting substances (ODS)				B.5.2.8	<odsdata>
Destruction of Army materiel to prevent enemy use	R	R	R	B.5.2.9	<destructmat>
Preparation for storage or shipment	R	R	R	B.5.2.10	<pssref>
Warranty information				B.5.2.11	<wrntyref>
Nomenclature cross-reference list				B.5.2.12	<nomenreflist>
List of abbreviations	R	R	R	B.5.2.13	<loa>
Quality of material	R	R	R	B.5.2.15	<qual.mat.info>
Safety, care, and handling				B.5.2.16	<sftyinfo>
Nuclear hardness				B.5.2.17	<hcp>
Calibration				B.5.2.18	<calref>
Supporting information for repair parts, special tools, TMDE, and support equipment				B.5.2.25	<supdata>
Copyright credit line				B.5.2.26	<copyrt>

TABLE A-IV. TM Requirements Matrix for _____.

TM Content	-23 -23&P	-24 -24&P	-34 -34&P	MIL-STD-40051-2 Reference	Element Name
EQUIPMENT DESCRIPTION AND DATA WORK PACKAGE	R	R	R	B.5.3	<descwp>
Equipment characteristics, capabilities, and features	R	R	R	B.5.3.3	<eqpinfo>
Location and description of major components	R	R	R	B.5.3.4	<locdesc>
Differences between models				B.5.3.5	<eqpdiff>
Equipment data	R	R	R	B.5.3.6	<eqpdata>
THEORY OF OPERATION WORK PACKAGE	R	R	R	B.5.4	<thrywp>
CHAPTER X. TROUBLESHOOTING MASTER INDEX				D.5.1 D.5.4.4	<tim> <masterindexcategory>
TROUBLESHOOTING INDEX WORK PACKAGE	R	R	R	D.5.5.5	<tsindxwp>
CHAPTER X. TROUBLESHOOTING PROCEDURES ***NOTE*** *The notation (*) indicates that, if required, at least one of the these content items shall be included*	R	R	R	D.5.1 D.5.4.2	<tim> <troublecategory>
TROUBLESHOOTING INDEX WORK PACKAGE				D.5.5.5	<tsindxwp>
**OPERATIONAL CHECKOUT WORK PACKAGES*				D.5.5.8.3	<opcheckwp>
**TROUBLESHOOTING PROCEDURES WORK PACKAGES*				D.5.5.8.4	<tswp>
**COMBINED OPERATIONAL CHECKOUT AND TROUBLESHOOTING PROCEDURES WORK PACKAGES*				D.5.5.8.5	<opcheck-tswp>
CHAPTER X. PMCS MAINTENANCE INSTRUCTIONS ***NOTE*** *PMCS is required as a minimum in one maintenance chapter*				E.5.2 E.5.2.1	<mim> <pmcscategory>
PMCS INTRODUCTION WORK PACKAGE	R	R	R	E.5.3.4.1	<pmcsintrowp>
PMCS, INCLUDING LUBRICATION INSTRUCTIONS, WORK PACKAGE	R	R	R	E.5.3.4.2	<pmcswp>

TABLE A-IV. TM Requirements Matrix for _____.

TM Content	-23 -23&P	-24 -24&P	-34 -34&P	MIL-STD-40051-2 Reference	Element Name
CHAPTER X. **MAINTENANCE INSTRUCTIONS** ***NOTE*** *PMCS is required as a minimum in one maintenance chapter*	R	R	R	E.5.2 E.5.2.2 E.5.2.3	<mim> <maintenancepmcscategory> <maintenancecategory>
SERVICE UPON RECEIPT WORK PACKAGE	R	R	P	E.5.3.2	<surwp>
Siting			P	E.5.3.2.3.1	<siting>
Shelter requirements			P	E.5.3.2.3.2	<shltr>
Service upon receipt of materiel	R	R	P	E.5.3.2.3.3	<surmat>
Installation instructions	R	R	P	E.5.3.2.3.4	<install>
Preliminary servicing of equipment			P	E.5.3.2.3.5	<preserv>
Preliminary checks and adjustment of equipment			P	E.5.3.2.3.6	<prechkadj>
Preliminary calibration of equipment			P	E.5.3.2.3.7	<precal>
Circuit alignment			P	E.5.3.2.3.8	<calign>
Ammunition markings			P	E.5.3.2.3.9.1	<ammo.markings>
Classification of defects			P	E.5.3.2.3.9.2	<ammo.defect>
Ammunition handling			P	E.5.3.2.3.9.3	<ammo.handling>
Procedures to activate ammunition			P	E.5.3.2.3.9.4	<arm>
Additional service upon receipt task			P	E.5.3.2.3.10	<other.surtsk>
Follow-on maintenance			P	E.5.3.2.3.11	<followon.maintsk>
EQUIPMENT / USER FITTING INSTRUCTIONS WORK PACKAGE (PERSONAL USE EQUIPMENT)				E.5.3.3	<perseqpwp>
PMCS INTRODUCTION WORK PACKAGE	R	R	R	E.5.3.4.1	<pmcsintrowp>
PMCS, INCLUDING LUBRICATION INSTRUCTIONS, WORK PACKAGE	R	R	R	E.5.3.4.2	<pmcswp>
MAINTENANCE WORK PACKAGES ***NOTE*** *As applicable, the following maintenance tasks shall be presented in the general order listed below:*	R	R	R	E.5.3.5	<maintwp>
Servicing				E.5.3.5.3.3	<service>
Ground handling				E.5.3.5.3.4	<groundtsk>
Inspection of installed items				E.5.3.5.3.5	<inspinstitm>
Removal				E.5.3.5.3.6	<remove>
Disassembly				E.5.3.5.3.7	<disassem>
Cleaning				E.5.3.5.3.8	<clean>
Inspection - acceptance and rejection criteria				E.5.3.5.3.9	<acptrejinsp>
Nondestructive testing inspection (NDTI)				E.5.3.5.3.10	<ndti>

TABLE A-IV. TM Requirements Matrix for _____.

TM Content	-23 -23&P	-24 -24&P	-34 -34&P	MIL-STD-40051-2 Reference	Element Name
Repair or replacement				E.5.3.5.3.11	<repair-rplc>
Alignment				E.5.3.5.3.12	<align>
Painting				E.5.3.5.3.13	<paint>
Lubrication				E.5.3.5.3.14	<lube>
Assembly				E.5.3.5.3.15	<assem>
Test and inspection				E.5.3.5.3.16	<test-inspect>
Installation				E.5.3.5.3.17	<install>
Adjustment				E.5.3.5.3.18	<adjust>
Calibration				E.5.3.5.3.19	<calibration>
Radio interference suppression				E.5.3.5.3.20	<ris>
Placing in service				E.5.3.5.3.21	<pis>
Testing				E.5.3.5.3.22	<test-pass>
Preparation for storage or shipment				E.5.3.5.3.25	<pss>
Classification of defects				E.5.3.5.3.26	<ammo.defect>
Handling ammunition				E.5.3.5.3.27	<ammo.handling>
Ammunition markings				E.5.3.5.3.28	<ammo.markings>
Procedures for ammunition activation				E.5.3.5.3.29	<arm>
Additional maintenance task				E.5.3.5.3.30	<other.maintsk>
Follow-on maintenance				E.5.3.5.3.31	<followon.maintsk>
GENERAL MAINTENANCE WORK PACKAGE				E.5.3.6	<maintwp>
LUBRICATION INSTRUCTIONS WORK PACKAGE				E.5.3.7	<lubewp>
ILLUSTRATED LIST OF MANUFACTURED ITEMS WORK PACKAGE				E.5.3.9	<manuwp>
TORQUE LIMITS WORK PACKAGE				E.5.3.10	<torquewp>
WIRING DIAGRAMS WORK PACKAGE				E.5.3.11	<wiringwp>
CHAPTER X. AUXILIARY EQUIPMENT MAINTENANCE INSTRUCTIONS				E.5.2 E.5.2.6	<mim> <auxiliarycategory>
AUXILIARY EQUIPMENT MAINTENANCE WORK PACKAGE				E.5.3.13	<auxeqpwp>
ILLUSTRATED LIST OF MANUFACTURED ITEMS WORK PACKAGE				E.5.3.9	<manuwp>
TORQUE LIMITS WORK PACKAGE				E.5.3.10	<torquewp>
WIRING DIAGRAMS WORK PACKAGE				E.5.3.11	<wiringwp>

TABLE A-IV. TM Requirements Matrix for _____.

TM Content	-23 -23&P	-24 -24&P	-34 -34&P	MIL-STD-40051-2 Reference	Element Name
CHAPTER X. **AMMUNITION** **MAINTENANCE INSTRUCTIONS**				E.5.2 E.5.2.7	<mim> <ammunitioncategory>
AMMUNITION MAINTENANCE WORK PACKAGE				E.5.3.14.1	<ammowp>
AMMUNITION MARKING INFORMATION WORK PACKAGE				E.5.3.14.2	<ammo.markingwp>
FOREIGN AMMUNITION (NATO) WORK PACKAGE				E.5.3.14.3	<natowp>
CHAPTER X. **PARTS INFORMATION** *(–23, –24, –34)* *(–23&P, –24&P, –34&P)*	 P R	 P R	 P R	F.5.3.2	<pim>
INTRODUCTION WORK PACKAGE	R	R	R	F.5.3.5	<introwp>
REPAIR PARTS LIST WORK PACKAGE	R	R	R	F.5.3.6	<plwp>
REPAIR PARTS FOR SPECIAL TOOLS WORK PACKAGE				F.5.3.7	<stl_partswp>
KIT PARTS LIST WORK PACKAGE				F.5.3.8	<kitswp>
BULK ITEM WORK PACKAGE				F.5.3.9	<bulk_itemswp>
SPECIAL TOOLS LIST WORK PACKAGE				F.5.3.10	<stlwp>
NSN INDEX WORK PACKAGE	R	R	R	F.5.3.11.1	<nsnindxwp>
P/N INDEX WORK PACKAGE	R	R	R	F.5.3.11.2	<pnindxwp>
REFERENCE DESIGNATOR INDEX WORK PACKAGE				F.5.3.11.3	<refdesindxwp>
CHAPTER X. **SUPPORTING INFORMATION** ***NOTE*** *Applicable supporting information work packages shall be arranged in the order in which they are presented here and numbered accordingly.*	R	R	R	G.5.1	<sim>
REFERENCES WORK PACKAGE	R	R	R	G.5.2	<refwp>
INTRODUCTION FOR STANDARD FORMAT MAC WORK PACKAGE *(FIVE-LEVEL MAINTENANCE ONLY)* *OR* *(TWO-LEVEL MAINTENANCE ONLY)*	R	R	P	 G.5.3.1 G.5.3.3	<macintrowp>
MAC WORK PACKAGE *(FIVE-LEVEL MAINTENANCE ONLY)* *OR* *(TWO-LEVEL MAINTENANCE ONLY)*	P	R	P	G.5.3.4	<macwp>

TABLE A-IV. TM Requirements Matrix for _____.

TM Content	-23 -23&P	-24 -24&P	-34 -34&P	MIL-STD-40051-2 Reference	Element Name
EXPENDABLE AND DURABLE ITEMS WORK PACKAGE	R	R	R	G.5.6	<explistwp>
TOOL IDENTIFICATION LIST WORK PACKAGE				G.5.7	<toolidwp>
MANDATORY REPLACEMENT PARTS WORK PACKAGE				G.5.8	<mrplwp>
CRITICAL SAFETY ITEMS AND FLIGHT SAFETY CRITICAL AIRCRAFT PARTS WORK PACKAGE				G.5.9	<csi.fscap.wp>
SUPPORT ITEMS WORK PACKAGE				G.5.10	<supitemwp>
ADDITIONAL SUPPORTING WORK PACKAGES				G.5.11	<genwp>
REAR MATTER	R	R	R	5.2.2	<rear>
Glossary				5.2.2.1	<glossary>
Alphabetical index				5.2.2.2	<aindx>
DA Form 2028	R	R	R	5.2.2.3	<da2028>
Authentication page	R	R	R	5.2.2.4	<authent>
Foldout pages				5.2.2.5	<foldsect>
Back cover	R	R	R	5.2.2.6	<back>

Legend
R Required
P Prohibited
Shaded As Required

DI-ALSS-81529 Attachment PKG1

Logistics Management Information Packaging Data Products

I. Packaging/Logistics Data Entry-DPD#0420=S
DPD# 0680 - National Stock Number (NSN)
DPD#1440 - Type Storage Code (TSC)- Code identifying, by level of protection, the type storage facility allowed(e.g. Unheated warehouse, Controlled Humidity Storage, Open Storage)
DPD#1460 - Pack Level Reference Indicator (PLRI)- Code for each level of packing authorized
DPD#0140 - Packaging Data Preparer - Code identifying CAGE code of
DPD#1190 - Shelf life code - Code identifying shelf life of packaged item
DPD#1200 - Shelf Life Action Code
Packaging reference if other than MIL-STD-2073.
DPD#0480 - Item name
DPD#1550 - Item weight
DPD#1530 - Item length
DPD#1530 Item width
DPD#1530 - Item depth
DPD#0750 - Packaging Category Codes
DPD#1250 - Special Marking codes
DPD#0980 - Quantity per unit pack
DPD#0450 - Quantity per intermediate pack
DPD#1050 - Item part number
DPD#0140 - CAGE code associated with Item part number
DPD#0660 - Preservation method Code
DPD#0130 - Cleaning method code
DPD#0810 - Preservative material code
DPD#1590 - Wrap material code
DPD#0200 - Cushioning material code
DPD#0210 - Cushioning thickness code
DPD#1450 - Unit container code
DPD#0440 - Intermediate container code
DPD#1460 - Unit Container Level Code
DPD#0760 - Packing requirements code
DPD#1550 - Unit pack weight
DPD#1530 - Unit pack length
DPD#1530 - Unit pack width
DPD#1530 - Unit pack depth
DPD#1520 - Unit pack cube
DPD#1290 - In-The-Clear Instructions
DPD#1220 - Source, Maintenance and Recoverability (SMR) Code

DPD#1470 - Unit of Issue (UI)
DPD#1510 - Unit of Measure (UM)
DPD#0240 - Include Logistics information for each of the items. Data shall be provided, as necessary, to permit the reviewer to determine the adequacy of the prepared packaging analysis and data submittal. This includes item drawings and logistics data such as; copies of Material Safety Data Sheets. Additionally, performance test report and photographic records of packaging and testing shall be delivered (where appropriate).

Data Elements not in the LMI dictionary (or requiring further definition)
Packaging indicator code. Enter a Packaging Indicator Code (PIC) to indicate the format and applicability of packaging requirements for each level of protection. Enter the PIC for level A in first position , for level B in second position , and for Level C in third position.
Transaction type If the transaction type (TT) in the TACOM Packaging Data file is A or C, enter "C" to change the entry. If the transaction type (TT) is blank, enter "A" to add the entry.
Pack level reference indicator Enter a Pack Level Reference Indicator (PLRI) for each level of protection. Enter the PLRI for level A in first position, for level B in second position, and for level C in third position.
a. PLRI for level A. For Sp. special group items enter "A". For Co. and Se. group items leave blank.
b. PLRI for level B. For Sp. group items enter "N" if the shipping container specified for level A is also required for level B. Enter "A" if the shipping container specified for level A is not the same container required for level B. For Co. and Se. group items enter "A".
c. PLRI for level C. To indicate Commercial Packing , enter "C". To indicate Commercial Packing is not applicable enter "N". "N" must not be entered if the Packaging Indicator Code (PIC) is "7".
Local Control Enter "X" (only with prior approval) in first position if the data is estimated. Enter a dash (-) if the data is engineered. Enter the symbol of the developer of the packaging data in second and third positions.
Document Revision - For PIC 4 items, enter the Revision of the Level A packaging document. If original, leave blank.
Document Date - For PIC 4 items, enter the date of the Level A packaging document in month-day-year sequence (two digit numerical characters for each). To be filled in when requested

Item Length, Item Width, Item Depth Enter the length, width and depth in inches and tenths of an inch. These entries shall equal the dimensions of the smallest rectangular solid into which the item will fit. For dimensions less than one tenth inch enter "0001". The largest dimension shall be entered as the length. The smallest dimension shall be entered as the depth.
Hazardous material code Enter the hazardous material code.
Hazardous Material Code
N Item is not hazardous for transport.

H Item is hazardous for transport. Hazardous material is any material or substance which is capable of posing an unreasonable risk to health, safety, or property when transported in commerce. For background see: International Maritime Dangerous Goods Code, INTERNATIONAL MARITIME ORGANIZATION; Technical Instructions for Safe Transport of Hazardous Goods, INTERNATIONAL CIVIL AVIATION ORGANIZATION; Title 29 (Labor), 40 (Protection of Environment) and 49 (Transportation), CODE OF FEDERAL REGULATIONS; and Recommendations on the Transport of Dangerous Goods, UNITED NATIONS.

Unit Pack Length, Width, and Depth Enter the exterior length, width and depth in inches and tenths of an inch. For dimensions less than one tenth inch enter "000l". The largest dimension shall be entered as the length. The smallest dimension shall be entered as the depth. For unit packs with skids, the vertical dimension shall be entered as the depth and the largest horizontal dimension shall be entered as the length.

SPI Revision - For PIC 4 items, enter the revision of the Special Packaging Instruction. If original, leave field blank or enter a dash (-). To be filled in when requested.

SPI Date - For PIC 4 items, enter the ordinal date, reflecting the two position year in the first two positions, and the day in the third through fifth positions (e.g., April 15, 1999 would be 99105) Do not use spaces or dashes.

INCOMING TRANSACTION FORMAT

Transactions must be submitted in an ASCII delimited text format using commas as delimiters. Quotation marks may be used as text qualifiers but are not required. All text must be upper case. The data provided shall apply to a single item.

FIELD	POSITION	LENGTH
NATIONAL STOCK NUMBER	1-13	13
PACKAGING INDICATOR CODE	14-16	3
TRANSACTION TYPE	17	1
LOP A TYPE STORAGE CODE	18	1
LOP B TYPE STORAGE CODE	19	1
LOP C TYPE STORAGE CODE	20	1
LOP A PACK LEVEL REFERENCE INDICATOR	21	1
LOP B PACK LEVEL REFERENCE INDICATOR	22	1
LOP C PACK LEVEL REFERENCE INDICATOR	23	1
LOCAL CONTROL	24-26	3
DOCUMENT REVISION	27-28	2
DOCUMENT DATE	29-34	6
NUMBER OF SHEETS (leave blank)	35-37	3
TD/CMS (leave blank)	38	1
SHELF LIFE	39	1
PACKAGING REFERENCE	40-49	10
ITEM NAME	50-58	9
ITEM WEIGHT	59-63	5
ITEM LENGTH	64-67	4
ITEM WIDTH	68-71	4
ITEM DEPTH	72-75	4
PACKAGING CATEGORY	76-79	4
SPECIAL MARKING	80-81	2
QUANTITY PER UNIT PACK	82-84	3
INTERMEDIATE CONTAINER QUANTITY	85-87	3
CAGE	88-92	5
PART NUMBER	93-113	21
PART INDICATOR	114	1
HAZARDOUS MATERIALS CODE	115	1
PRESERVATION METHOD	116-117	2
CLEANING AND DRYING	118	1
PRESERVATIVE MATERIAL	119-120	2
WRAP MATERIAL	121-122	2
CUSHIONING AND DUNNAGE	123-124	2
CUSHIONING THICKNESS	125	1
UNIT CONTAINER	126-127	2

INTERMEDIATE CONTAINER	128-129	2
UNIT CONTAINER LEVEL	130	1
LEVEL A PACKING CODE	131	1
LEVEL B PACKING CODE	132	1
LEVEL C PACKING CODE	133	1
UNIT PACK WEIGHT	134-138	5
UNIT PACK LENGTH	139-142	4
UNIT PACK WIDTH	143-146	4
UNIT PACK DEPTH	147-150	4
UNIT PACK CUBE	151-157	7
OPTIONAL PROCEDURE INDICATOR (left blank)	158	1
LEVEL A SUPPLEMENTAL INSTRUCTIONS	159-208	50
SPI REVISION	209	1
SPI DATE	210-214	5
CONTAINER NATIONAL STOCK NUMBER	215-227	13
LEVEL B SUPPLEMENTAL INSTRUCTIONS	228-277	50
LEVEL C SUPPLEMENTAL INSTRUCTIONS	278-327	50
APPROVAL	328-336	9
COMMENTS	337-386	50
STATUS	387-394	8
TRANSACTION DATE	395-400	6

CONTROL NO.	1. ORGANIZATION	2. LOCATION	3. UNIT IDENT CODE	4. UTILIZATION CODE	5. VEHICLE USE CODE
6. NOMENCLATURE	7. MODEL	8. NATIONAL STOCK NO.	9. SERIAL NO.	10. REGISTRATION NO.	
11. YEAR OF MFG	12. MANUFACTURER *(MFG Code)*	13. CONTRACT NO.	14. PURCHASE ORDER NO.	15. WARRANTY PERIOD	

16. TYPE REPORT	17. REPORT CODE	18. USAGE	19 SHIPPED TO *a.* ORGANIZATION	*b.* SHIPPED TO UIC
a. ACCEPTANCE AND REGISTRATION		*a.* HOURS		
b. USAGE				
c. TRANSFER		*b.* MILES	20. RECEIVED FROM *a.* ORGANIZATION	*b.* RECEIVED FROM UIC
d. LOSS				
e. GAIN		*c.* ROUNDS		
f. OTHER				

21. REMARKS:

22. INSPECTOR'S SIGNATURE:	23. JULIAN DATE
EQUIPMENT CONTROL RECORD For use of this form, see DA Pam 738-750; the proponent agency is DCSLOG	*REPORTS CONTROL SYMBOL* *CSGLD - 1608*

FORM
DA 1 OCT 72 2408-9

REPLACES DA FORMS 2408-7, 1 JAN 64, AND 2408-8, 1 JAN 64, WHICH ARE OBSOLETE.

CONTROL COPY 1
NMP COPY 2
LOG BOOK COPY 3

Attachment 009

W56HZV-07-R-0343

ATTACHMENT 10

SUMMARY TITLE: UNIQUIE IDENTIFICATION DESCRIPTOR (UID)Data Summary
SPECIFIC INSTRUCTIONS: The contractor shall document a UID Data Summary containing a list of UID candidate parts provided by the government. The summary will be in the contractor's format, in end item hardware breakdown sequence. Each candidate part shall have a list of data elements completed by the contractor. The government may add or remove parts from the Summary based on their analysis. The final Summary will provide source data for the government to identify which components (parts) will have a UID.
DATA **IN LMI** SPECIFICATION (Please provide the data product title): _____ _____ _____ _____ _____ _____
DATA **NOT IN LMI** SPECIFICATION (Please provide the data product title, its definition and its format): **Title**: UID Data Summary **Required Data Elements**: Component/Assembly Name Component Part Number & Commercial And Government Entity Code (CAGEC) Source, Maintenance & Recoverability (SMR) Code Level of Maintenance (H-General Support and D-Depot) Government Cost Additional data elements may be added at the contractor's discretion. **Format**: Contractor's format using Microsoft Excel
SUMMARY LAYOUT Contractor Provided

TDP OPTION SELECTION WORKSHEET

DEVELOPMENTAL DESIGN DRAWINGS AND ASSOCIATED LISTS

A. CONTRACT NO.	b. EXHIBIT/ATTACHMENT NO.	C. CLIN	D. CDRL DATA ITEM NO. DI-SESS-81002D

1. DELIVERABLE PRODUCT (X and complete as applicable.)

☐	a. ORIGINALS (Specify current design activity's full size reproducible drawing or digital data file(s) on which is kept the revision record Recognized as official) (identify specification, type, grade and class, etc.)
☐	b. REPRODUCTIONS (Identify specifications, type, grade and class, etc., and quantity of each)
☒	c. DIGITAL DATA (Identify specification, exchange media, etc. and specify original (master) or copy) All drawings shall be delivered in native CAD and .PDF formats (one copy each).

2. CAGE CODE AND DOCUMENT NUMBERS (X ONE)

☒	a. CONTRACTOR
☐	b. GOVERNMENT Complete (1) and (2) or (3):

(1) Use CAGE Code	(2) Use Document Numbers	(3) To Be Assigned By:

3. DRAWING FORMATS AND DRAWING FORMS (X one and complete as applicable)

☒	a. CONTRACTOR FORMATS. Forms to be supplied by contractor.
☐	b. GOVERNMENT FORMATS. Forms to be supplied by contractor. Samples supplied by (Specify)
☐	c. GOVERNMENT FORMATS. Forms to be supplied as Government Furnished Material by (Specify)

4. TYPES OF DRAWINGS SELECTION (X one)

☒	a. CONTRACTOR SELECTS	☐	b. GOVERNMENT SELECTS (Specify in Item 8)

5. ASSOCIATED LISTS (X and complete (1), (2), or (3) as applicable)

☒	a. PARTS LISTS (X one)	X	(1) Integral		(2) Separate		(3) Contractor's Option
☒	b. DATA LISTS (X one)	☒	(1) Not Required	☐	(2) Required (Specify levels of assembly)		
☒	c. INDEX LISTS (X one)	☒	(1) Not Required	☐	(2) Required (Specify levels of assembly)		
☒	d. WIRING LISTS (X one)	☐	(1) Not Required	☒	(2) Required (Specify levels of assembly) Sub-assembly		
☒	e. INDENTURED DATA LISTS (X one)	☐	(1) Not Required	☒	(2) Required (Specify levels of assembly) Top-level		
☒	f. APPLICATION LISTS (X one)	☐	(1) Not Required	☒	(2) Required (Specify levels of assembly) Assembly		

6. DETAILS (X one)

☒	a. MULTIDETAIL DRAWINGS PERMITTED	☐	b. MONODETAIL DRAWINGS MANDATORY

7.. APPLICABILITY OF STANDARDS. The following Standards apply: (X as applicable)

☒	a. ASME Y14.100, ENGINEERING DRAWING PRACTICES (COMMERCIAL)	☐ B ☒ C ☐ D ☒ E	b. ASME Y14.100, WITH APPENDICES B, C, D, E	☒	c. ASME Y14.34, ASSOCIATED LISTS	☐	d. EXISTING STANDARDS DO NOT APPLY

9. OTHER TAILORING (Attach additional sheets as necessary)